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PTO/SB/21 (05-03)

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| TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i> | | Application Number | 09/746,921 |
| | | Filing Date | December 22, 2000 |
| | | First Named Inventor | Kevin J. Thorne |
| | | Art Unit | 1654 |
| | | Examiner Name | Patricia A. Patten |
| Total Number of Pages in This Submission | | Attorney Docket Number | SBI-073 |

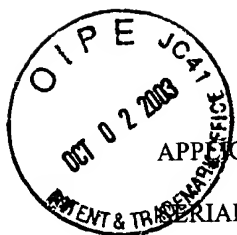
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|--|-------------------------------------|
| Firm Or Individual Name | Carol G. Mintz, PTO Reg. No. 38,561 |
| Signature | <i>Carol G. Mintz</i> |
| Date | September 30, 2003 |

| CERTIFICATE OF MAILING | | | |
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Kevin J. Thorne et al. §
§
SERIAL NO.: 09/746,921 §
§
FILED: December 22, 2000 §
§
FOR: Composition and Process §
For Bone Growth and Repair §

GROUP ART UNIT: 1654
EXAMINER: Patricia A. Patten

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Atty. Dkt. No.: SBI-073 (2026-00800)
Date: September 30, 2003

Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In accordance with 37 CFR §1.97, §1.98, applicant is providing herewith copies of the supplementary items listed on the attached U.S. Patent and Trademark Office Form PTO 1449. If this application was filed prior to June 30, 2003, a copy of each publication listed on Form PTO-1449 is enclosed herewith. This information is supplemental to the Information Disclosure Statement and Form PTO 1449 filed in the above-referenced case on August 28, 2002, and includes a resubmission of foreign patents and non-patent art, copies in response to the Office Action of February 25, 2003.

The submission of this Supplemental Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action.

It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

Electronic Information Disclosure Statement

As a part of this submission, an electronic Information Disclosure Statement (eIDS) is being transmitted on this date, and includes a listing of U.S. Patent and Published Applications of which Applicants are aware. A printed copy of that submission is attached hereto.

In accordance with 37 C.F.R. 1.98(e), no paper copies of those U.S. Patent and Published Applications are enclosed.

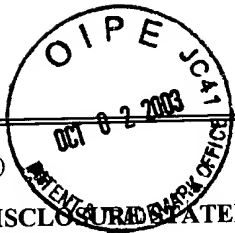
Applicants believe no fee is due for the filing of these papers. If, however, the Commissioner deems that a fee is due, please charge the fee to Deposit Account 03-2769 of Conley Rose, P.C.

Respectfully submitted,

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AGENT FOR APPLICANT



Form PTO-1449 (Modified)

Atty. Docket No.
SBI-073Serial No.
09/746,921**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**
(Use several sheets if necessary)Applicant
Thorne et al.Filing Date
12/22/2000Group
1654**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE IF APPROPRIATE |
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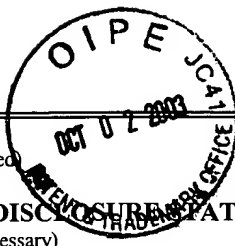
FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | Translation | |
|--|-----|--------------------|------------|---------|-------|---------------|-------------|----|
| | | | | | | | YES | NO |
| | B1 | *EP0271668 | 10/20/1987 | EP | | | | |
| | B2 | EP0522569 | 07/10/1992 | EP | | | | |
| | B3 | *EP0558727 | 09/09/1992 | EP | | | | |
| | B3 | *EP0605799 | 12/06/1993 | EP | | | | |
| | B5 | EP0616814 | 03/21/1994 | EP | | | | |
| | B6 | EP0623031 | 11/13/1992 | EP | | | | |
| | B7 | EP0719529 | 12/18/1995 | EP | | | | |
| | B8 | EP0747067 | 05/29/1996 | EP | | | | |
| | B9 | EP0754699 | 02/02/1996 | EP | | | | |
| | B10 | EP0901795 | 09/10/1998 | EP | | | | |
| | B11 | EP0987031 | 07/12/1999 | EP | | | | |
| | B12 | EP1127581 | 02/22/2000 | EP | | | | |
| | B13 | WO0004940 | 07/06/1999 | PCT | | | | |
| | B14 | WO9915211 | 09/18/1998 | PCT | | | | |
| | B15 | WO0045870 | 02/04/2000 | PCT | | | | |
| | B16 | WO0074690 | 02/02/2000 | PCT | | | | |
| | B17 | WO0132072 | 10/31/2000 | PCT | | | | |
| | B18 | WO0141821 | 12/08/2000 | PCT | | | | |
| | B19 | WO0211781 | 07/27/2001 | PCT | | | | |
| | B20 | WO0221222 | 08/24/2001 | PCT | | | | |
| | B21 | WO0222045 | 09/05/2001 | PCT | | | | |
| | B22 | WO02024107 | 09/19/2001 | PCT | | | | |
| | B23 | WO0234113 | 10/24/2001 | PCT | | | | |
| | B24 | WO0234116 | 10/24/2001 | PCT | | | | |
| | B25 | WO0240073 | 11/20/2000 | PCT | | | | |
| | B26 | WO0240963 | 10/23/2001 | PCT | | | | |
| | B27 | WO8707495 | 06/05/1987 | PCT | | | | |
| | B28 | WO9000892 | 07/20/1989 | PCT | | | | |
| | B29 | WO9200109 | 06/24/1991 | PCT | | | | |
| | B30 | WO9305823 | 09/09/1992 | PCT | | | | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



Form PTO-1449 (Modified)

Atty. Docket No.
SBI-073Serial No.
09/746,921**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use several sheets if necessary)

Applicant
Thorne et al.Filing Date
12/22/2000Group
1654

| | | | | | | | | |
|--|-----|-------------|------------|-----|--|--|--|--|
| | B31 | WO9610374 | 10/03/1994 | PCT | | | | |
| | B32 | WO9610428 | 10/03/1995 | PCT | | | | |
| | B33 | WO9639203 | 06/06/1996 | PCT | | | | |
| | B34 | WO9640297 | 06/07/1996 | PCT | | | | |
| | B35 | WO9817330 | 10/20/1997 | PCT | | | | |
| | B36 | WO9830141 | 01/08/1998 | PCT | | | | |
| | B37 | WO9835653 | 02/12/1998 | PCT | | | | |
| | B38 | WO9851354 | 05/15/1998 | PCT | | | | |
| | B39 | WO9415653 | 01/11/1994 | PCT | | | | |
| | B40 | WO9420064 | 09/15/1993 | PCT | | | | |
| | B41 | WO0032251 | 12/03/1999 | PCT | | | | |
| | B42 | WO0045870 | 02/04/2000 | PCT | | | | |
| | B43 | WO0045871 | 02/04/2000 | PCT | | | | |
| | B44 | WO0047114 | 02/07/2000 | PCT | | | | |
| | B45 | WO0071178 | 05/17/2000 | PCT | | | | |
| | B46 | WO0141822 | 12/08/2000 | PCT | | | | |
| | B47 | WO0166044 | 02/26/2001 | PCT | | | | |
| | B48 | WO0174410 | 08/04/2000 | PCT | | | | |
| | B49 | WO0207961 | 02/12/2001 | PCT | | | | |
| | B50 | *JP1076861 | 03/22/1989 | JP | | | | |
| | B51 | *JP11164880 | 06/22/1999 | JP | | | | |
| | B52 | *JP1121059 | 05/12/1989 | JP | | | | |
| | B53 | *JP1250264 | 10/05/1989 | JP | | | | |
| | B54 | *JP6100410 | 04/12/1994 | JP | | | | |
| | B55 | *JP63066106 | 03/24/1988 | JP | | | | |
| | B56 | *2000262608 | 09/26/2000 | JP | | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|--|----|---|
| | C1 | PCT/US01/49314, PCT International Search Report dated 04/07/2002, 3 sheets |
| | C2 | Kubler, N. et al., "BONE MORPHOGENETIC PROTEIN-MEDIATED INTERACTION OF PERIOSTEUM AND DIAPHYSIS: Citric Acid and Other Factors Influencing the Generation of Parosteal Bone," Clinical Orthopaedics and Related Research, Number 258 (September 1990) 279-294 |
| | C3 | Noah, E.M. et al, "IMPACT OF STERILIZATION OF THE POROUS DESIGN AND CELL BEHAVIOR IN COLLAGEN SPONGES PREPARED FOR TISSUE ENGINEERING," Biomaterials, Volume 23 (2002) 2855-2861 |
| | | |

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| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. | |

Foreign Patent Applications notated with an asterisk () are being supplied with an English translation of the Abstract and/or Claims.

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UNITED STATES PATENT AND TRADEMARK OFFICE ACKNOWLEDGEMENT RECEIPT

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Title of Invention

Composition and Process For Bone Growth and Repair

Submission Type: Information Disclosure Statement

Application Number: 09/746921

09/746921

EFS ID: 48562

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| ISYS5 | Filename= N/A BusinessRule= Validation System/Function Call Information. #Supporting Msg:Server unable to validate the Confirmaton/Application numbers at this time. They will be checked by PTO personnel later. |

First Named Applicant: Kevin Thorne

Attorney Docket Number: SBI-073 (2026-00800)

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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
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COPY**Title of
Invention**

Composition and Process For Bone Growth and Repair

Application Number: 09/746921 *09/746921*

Confirmation Number: 2764

First Named Applicant: Kevin Thorne

Attorney Docket Number: SBI-073 (2026-00800)

Art Unit: 1654

Examiner: Patricia A. Patten

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6203574 or 6206924 or 6206931 or 6221109 or
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6294041 or 6302913 or 6309422 or 6309909 or
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 20020106393 or 20020106394).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |
|------|----------|------------|------------|------------------|------|-------|----------|
| | 1 | RE35694 | 1997-12-16 | Seyedin et al. | | | |
| | 2 | 3919723 | 1975-11-18 | Heimke et al. | | | |
| | 3 | 3968567 | 1976-07-13 | Nevins | | | |
| | 4 | 4146936 | 1979-04-03 | Aoyagi et al. | | | |
| | 5 | 4192021 | 1980-03-11 | Deibig et al. | | | |
| | 6 | 4202055 | 1980-05-13 | Reiner et al. | | | |
| | 7 | 4237559 | 1980-12-09 | Borom | | | |
| | 8 | 4356572 | 1982-11-02 | Guillemin et al. | | | |
| | 9 | 4394370 | 1983-07-19 | Jeffries | | | |
| | 10 | 4412947 | 1983-11-01 | Cioca | | | |
| | 11 | 4429691 | 1984-02-07 | Niwa et al. | | | |
| | 12 | 4497075 | 1985-02-05 | Niwa et al. | | | |
| | 13 | 4609551 | 1986-09-02 | Caplan et al. | | | |
| | 14 | 4619655 | 1986-10-28 | Hanker et al. | | | |
| | 15 | 4623553 | 1986-11-18 | Ries et al. | | | |
| | 16 | 4642120 | 1987-02-10 | Nevo et al. | | | |
| | 17 | 4698326 | 1987-10-06 | Sauk et al. | | | |
| | 18 | 4774227 | 1988-09-27 | Piez et al. | | | |
| | 19 | 4789663 | 1988-12-06 | Wallace et al. | | | |
| | 20 | 4795467 | 1989-01-03 | Piez et al. | | | |
| | 21 | 4843063 | 1989-06-27 | Seyedin et al. | | | |
| | 22 | 4843112 | 1989-06-27 | Gerhart et al. | | | |
| | 23 | 4863732 | 1989-09-05 | Nathan et al. | | | |
| | 24 | 4863856 | 1989-09-05 | Dean Jr. et al. | | | |

COPY

| | | | | |
|--|----|---------|------------|----------------------|
| | 25 | 4888366 | 1989-12-19 | Chu et al. |
| | 26 | 4919670 | 1990-04-24 | Dale et al. |
| | 27 | 4997446 | 1991-03-05 | Thoma |
| | 28 | 5001169 | 1991-03-19 | Nathan et al. |
| | 29 | 5011691 | 1991-04-30 | Oppermann et al. |
| | 30 | 5024841 | 1991-06-18 | Chu et al. |
| | 31 | 5028695 | 1991-07-02 | Eckmayer et al. |
| | 32 | 5085861 | 1992-02-04 | Gerhart et al. |
| | 33 | 5108753 | 1992-04-28 | Kuberasampath et al. |
| | 34 | 5118667 | 1992-06-02 | Adams et al. |
| | 35 | 5137534 | 1992-08-11 | Sumita |
| | 36 | 5204382 | 1993-04-20 | Wallace et al. |
| | 37 | 5208219 | 1993-05-04 | Ogawa et al. |
| | 38 | 5236704 | 1993-08-17 | Fujioka et al. |
| | 39 | 5262166 | 1993-11-16 | Liu et al. |
| | 40 | 5274078 | 1993-12-28 | Wada et al. |
| | 41 | 5306303 | 1994-04-26 | Lynch |
| | 42 | 5354557 | 1994-10-11 | Oppermann et al. |
| | 43 | 5366508 | 1994-11-22 | Brekke |
| | 44 | 5393739 | 1995-02-28 | Bentz et al. |
| | 45 | 5417975 | 1995-05-23 | Lussi et al. |
| | 46 | 5425770 | 1995-06-20 | Piez et al. |
| | 47 | 5433751 | 1995-07-18 | Christel et al. |
| | 48 | 5443531 | 1995-08-22 | Ripamonti |
| | 49 | 5496552 | 1996-03-05 | Kuberasampath |
| | 50 | 5531791 | 1996-07-02 | Wolfenbarger Jr. |
| | 51 | 5532217 | 1996-07-02 | Silver et al. |
| | 52 | 5547378 | 1996-08-20 | Linkow |
| | 53 | 5552454 | 1996-09-03 | Kretschmann et al. |
| | 54 | 5599552 | 1997-02-04 | Dunn et al. |
| | 55 | 5639402 | 1997-06-17 | Barlow et al. |
| | 56 | 5769897 | 1998-06-23 | Harle |
| | 57 | 5776193 | 1998-07-07 | Kwan et al. |
| | 58 | 5811094 | 1998-09-22 | Caplan et al. |
| | | | | |

COPY

| | | | | |
|--|----|---------|------------|------------------|
| | 59 | 5814604 | 1998-09-29 | Oppermann et al. |
| | 60 | 5830340 | 1998-11-03 | Iljitch et al. |
| | 61 | 5837752 | 1998-11-17 | Shastri et al. |
| | 62 | 5904717 | 1999-05-18 | Brekke et al. |
| | 63 | 5904718 | 1999-05-18 | Jefferies |
| | 64 | 5910492 | 1999-06-08 | Hoshino et al. |
| | 65 | 5916553 | 1999-06-29 | Schmidt |
| | 66 | 5932207 | 1999-08-03 | Schmidt |
| | 67 | 5935594 | 1999-08-10 | Ringeisen |
| | 68 | 5952010 | 1999-09-14 | Constantz |
| | 69 | 5955529 | 1999-09-21 | Imai et al. |
| | 70 | 5958430 | 1999-09-28 | Campbell et al. |
| | 71 | 5958441 | 1999-09-28 | Oppermann et al. |
| | 72 | 5997895 | 1999-12-07 | Narotam et al. |
| | 73 | 6018095 | 2000-01-25 | Lerch et al. |
| | 74 | 6033438 | 2000-03-07 | Bianchi et al. |
| | 75 | 6071982 | 2000-06-06 | Wise et al. |
| | 76 | 6118043 | 2000-09-12 | Nies et al. |
| | 77 | 6132463 | 2000-10-17 | Lee et al. |
| | 78 | 6136029 | 2000-10-24 | Johnson et al. |
| | 79 | 6139578 | 2000-10-31 | Lee et al. |
| | 80 | 6165487 | 2000-12-26 | Ashkar et al. |
| | 81 | 6180605 | 2001-01-30 | Chen et al. |
| | 82 | 6180606 | 2001-01-30 | Chen et al. |
| | 83 | 6183515 | 2001-02-06 | Barlow et al. |
| | 84 | 6187047 | 2001-02-13 | Kwan et al. |
| | 85 | 6187329 | 2001-02-13 | Agrawal et al. |
| | 86 | 6214049 | 2001-04-10 | Gayer et al. |
| | 87 | 6214368 | 2001-04-10 | Lee et al. |
| | 88 | 6261565 | 2001-07-17 | Empie et al. |
| | 89 | 6264701 | 2001-07-24 | Brekke |
| | 90 | 6277151 | 2001-08-21 | Lee et al. |
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| | 92 | 6287341 | 2001-09-11 | Lee et al. |
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| | 93 | 6294187 | 2001-09-25 | Boyce et al. |
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| | 98 | 6326018 | 2001-12-04 | Gertzman et al. |
| | 99 | 6376211 | 2002-04-23 | Little II et al. |
| | 100 | 6384196 | 2002-05-07 | Weis et al. |
| | 101 | 6384197 | 2002-05-07 | Weis et al. |
| | 102 | 4668295 | 1987-05-26 | Bajpai |
| | 103 | 5123923 | 1992-06-23 | Pommier et al. |
| | 104 | 5152836 | 1992-10-06 | Hirano et al. |
| | 105 | 5426769 | 1995-06-20 | Snyders, Jr. |
| | 106 | 6346123 | 2002-02-12 | McKay |
| | 107 | 5290763 | 1994-03-01 | Poser et al. |
| | 108 | 5707962 | 1998-01-13 | Cheng et al. |
| | 109 | 4451397 | 1984-05-29 | Huc et al. |
| | 110 | 4455256 | 1984-06-19 | Urist |
| | 111 | 4563350 | 1986-01-07 | Nathan et al. |
| | 112 | 4596574 | 1986-06-24 | Urist |
| | 113 | 4606910 | 1986-08-19 | Sawyer |
| | 114 | 4620327 | 1986-11-04 | Caplan et al. |
| | 115 | 4761471 | 1988-08-02 | Urist |
| | 116 | 4776890 | 1988-10-11 | Chu |
| | 117 | 4780450 | 1998-10-25 | Sauk et al. |
| | 118 | 4789732 | 1988-12-06 | Urist |
| | 119 | 4891359 | 1990-01-02 | Saferstein et al. |
| | 120 | 4950483 | 1990-08-21 | Ksander et al. |
| | 121 | 4970298 | 1990-11-13 | Silver et al. |
| | 122 | 4975527 | 1990-12-04 | Koezuka et al. |
| | 123 | 5034059 | 1991-07-23 | Constantz |
| | 124 | 5035715 | 1991-07-30 | Smestad et al. |
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| | 132 | 5169837 | 1992-12-08 | Lagarde et al. |
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| | 136 | 5231169 | 1993-07-27 | Constantz et al. |
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| | 140 | 5270300 | 1993-12-14 | Hunziker |
| | 141 | 5320844 | 1994-06-14 | Liu |
| | 142 | 5336264 | 1994-08-09 | Constantz et al. |
| | 143 | 5338772 | 1994-08-16 | Bauer et al. |
| | 144 | 5344654 | 1994-09-06 | Rueger et al. |
| | 145 | 5352715 | 1994-10-04 | Wallace et al. |
| | 146 | 5366756 | 1994-11-22 | Chesterfield et al. |
| | 147 | 5368858 | 1994-11-29 | Hunziker |
| | 148 | 5399361 | 1995-03-21 | Song et al. |
| | 149 | 5405390 | 1995-04-11 | O'Leary et al. |
| | 150 | 5413989 | 1995-05-09 | Ogawa et al. |
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| | 152 | 5455231 | 1995-10-03 | Constantz et al. |
| | 153 | 5466462 | 1995-11-14 | Rosenthal et al. |
| | 154 | 5508267 | 1996-04-16 | Czernuszkza et al. |
| | 155 | 5522894 | 1996-06-04 | Draenert |
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| | 157 | 5565502 | 1996-10-15 | Glimcher et al. |
| | 158 | 5573771 | 1996-11-12 | Geistlich et al. |
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| | 161 | 5645591 | 1997-07-08 | Kuberasampath et al. |
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| | 177 | 5756457 | 1998-05-26 | Wang et al. |
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| | 179 | 5840325 | 1998-11-24 | Kuberasampath et al. |
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| | 181 | 5899939 | 1999-05-04 | Boyce et al. |
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| | 185 | 5922025 | 1999-07-13 | Hubbard |
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| | 190 | 5972368 | 1999-10-26 | McKay |
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| | 192 | 6013853 | 2000-01-11 | Athanaslou et al. |
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| | | | | |

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| | 200 | 6110482 | 2000-08-29 | Khoury et al. |
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